

WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:  
a mounting portion on which a cartridge having  
at least some of members necessary for image forming  
5 and a storage part and detachably attachable to image  
forming apparatuses of different features is mounted;  
and  
a control part for judging an interchange time  
of the cartridge according to information stored in  
10 the storage part;  
wherein the storage part has a storage area for  
storing therein information regarding a used amount  
is each feature of said image forming apparatuses,  
and said control part judges the interchange time of  
15 the cartridge in conformity with the information of  
the used amount in the each feature stored in the  
storage area of the storage part.
2. An image forming apparatus according to  
20 Claim 1, wherein said control part requires  
information for judging the interchange time of the  
cartridge according to information regarding a used  
amount in its own feature stored in the storage part  
and information obtained by converting information  
25 regarding a used amount in the other feature than its  
own.

3. An image forming apparatus according to  
Claim 2, wherein the storage part further has a  
storage area for storing therein information  
regarding a threshold value conformity to an upper  
5 limit of the used amount in each feature, and said  
control part compares the information for judging the  
interchange time of said cartridge and the  
information regarding said threshold value with each  
other, and judges whether the cartridge has reached  
10 the interchange time thereof.

4. An image forming apparatus according to  
Claim 3, wherein the storage part further has a  
storage area for storing therein history information  
15 indicating that said cartridge has reached the  
interchange time thereof, and said control part, when  
it judges that the cartridge has reached the  
interchange time thereof, writes into the storage  
area for storing the history information therein  
history information indicating that the cartridge is  
20 at the interchange time thereof.

5. An image forming apparatus according to  
Claim 1, wherein the information regarding the used  
25 amount is the number of recorded sheets in said image  
forming apparatus.

6. An image forming apparatus according to  
Claim 1, wherein said members necessary for image  
forming are an image bearing member, a charging  
member for charging said image bearing member, a  
5 cleaning apparatus for cleaning said image bearing  
member, and a developing apparatus for supplying a  
developer to said image bearing member.

7. An image forming apparatus according to  
10 Claim 1, wherein said image forming apparatuses of  
different features are image forming apparatuses  
differing from each other in a conveying interval  
between transferring materials on which image forming  
is effected.

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8. An image forming apparatus according to  
Claim 6, wherein said image forming apparatuses of  
different features are image forming apparatuses  
differing in a charging process by said charging  
20 member from each other.

9. An image forming apparatus according to  
Claim 6, wherein said image forming apparatuses of  
different features are image forming apparatuses  
25 having a transferring member for bringing a recording  
member into contact with said image bearing member,  
and differing in the contact pressure of said

transferring member from each other.

10. A cartridge having at least some of members  
necessary for image forming and a storage part, and  
5 detachably attachable to mounting portions of image  
forming apparatuses of different features having a  
control part for judging an interchange time of said  
cartridge in conformity with information stored in  
said storage part, wherein said storage part has a  
10 storage area for storing therein information  
regarding a used amount in each feature.

11. A cartridge according to Claim 10, wherein  
said storage part further has storage areas for  
15 storing therein information regarding threshold  
values conforming to upper limits of the used amounts  
in said image forming apparatuses of different  
features.

20 12. A cartridge according to Claim 10, wherein  
said storage part further includes a storage area for  
storing therein history information indicating that  
said cartridge has reached an interchange time.

25 13. A cartridge according to Claim 10, wherein  
said members necessary for image forming are at least  
an image bearing member, a charging member for

charging said image bearing member, a cleaning apparatus for cleaning said image bearing member, and a developing apparatus for supplying a developer to said image bearing member.

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14. A cartridge according to Claim 10, wherein the information regarding said used amount is the number of recorded sheets in said image forming apparatuses of different features.

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15. A cartridge according to Claim 10, wherein said image forming apparatuses of different features are image forming apparatuses differing from each other in a conveying interval between transferring materials on which image forming is effected.

16. A cartridge according to Claim 13, wherein said image forming apparatuses of different features are image forming apparatuses differing in a charging process by said charging member from each other.

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17. A cartridge according to Claim 13, wherein said image forming apparatuses of different features are image forming apparatuses having a transferring member for bringing a recording member into contact with said image bearing member, and differing in the contact pressure of said transferring member from

each other.

18. A storage medium carried on a cartridge having at least some of members necessary for image forming and a storage part, and detachably attachable to the mounting portions of image forming apparatuses of different features, said storage medium having a storage area for storing therein information regarding a used amount in each feature.

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19. A storage medium according to Claim 18, further having storage areas for storing therein information regarding threshold values conforming to the upper limits of used amounts in said image forming apparatuses of different features.

20. A storage medium according to Claim 18, further having a storage area for storing therein history information indicating that said cartridge has reached an interchange time.

21. A storage medium according to Claim 18, wherein said members necessary for image forming are at least an image bearing member, a charging member for charging said image bearing member, a cleaning apparatus for cleaning said image bearing member, and a developing apparatus for supplying a developer to

said image bearing member.

22. A storage medium according to Claim 18,  
wherein said image forming apparatuses of different  
5 features are image forming apparatuses differing from  
each other in a conveying interval between  
transferring materials on which image forming is  
effected.

10 23. A storage medium according to Claim 21,  
wherein said image forming apparatuses of different  
features are image forming apparatuses differing in a  
charging process by said charging member from each  
other.

15 24. A storage medium according to Claim 21,  
wherein said image forming apparatuses of different  
features are image forming apparatuses having a  
transferring member for bringing a recording member  
20 into contact with said image bearing member, and  
differing in the contact pressure of said  
transferring member from each other.